



IFU 2819

PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

88 w/o this
sheet

Application Number	10/536,699
Filing Date	May 27, 2005
First Named Inventor	Reinhold Koch
Art Unit	2819
Examiner Name	Unknown
Attorney Docket Number	3007990-0001-PCT-US

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Preliminary	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	(1) Foreign Patent References
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	(2) Non-Patent References
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Landscape Table on CD	(3) Postal Receipt Card
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	<div>Remarks</div>	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	SCHNADER, HARRISON, SEGAL & LEWIS, LLP		
Signature	<i>Joan T. Kluger</i>		
Printed name	JOAN T. KLUGER		
Date	5/1/06	Reg. No.	38,940

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature	<i>Deanna M. McGregor</i>		
Typed or printed name	DEANNA M. MCGREGOR	Date	5/2/06

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PHDATA 1330062_1



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 2819
Examiner : Unknown **22469**
Serial No. : 10/536,699
Filed : May 27, 2005
Inventors : Koch, et al.
Title : MAGNETIC LOGIC DEVICE Confirmation No.: 9291
Docket No.: 3007990-0001-PCT-US

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

We submit herewith the Forms PTO/SB/08a and PTO/SB/08b. They are submitted to comply with the Applicants' duty of disclosure under 37 C.F.R. §1.56 and are believed related to this application.

We are submitting this in the spirit of voluntary disclosure.

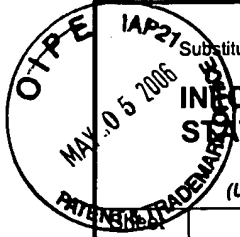
It is accordingly requested that the Information Disclosure Statement be officially entered in the file of this case and that appropriate notification be made that it was considered in the prosecution of the case.

Respectfully submitted,
SCHNADER HARRISON SEGAL & LEWIS LLP

Dated: 5/1/06

By: *Joan T. Kluger*
Joan T. Kluger
Reg. No. 38,940
1600 Market Street, Suite 3600
Philadelphia, PA 19103
Tel: (215) 751-2357
Fax: (215) 751-2205
E-mail: jkluger@schnader.com
Attorneys for Applicants

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/536,699
Filing Date	May 27, 2005
First Named Inventor	Reinhold Koch
Art Unit	2819
Examiner Name	
Attorney Docket Number	3007990-0001-PCT-US

U.S. PATENT DOCUMENTS						
Examiner Initials'	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
		US- 5,629,549		05-13-1997	Johnson	
		US- 6,140,838		10-31-2000	Johnson	
		US- 2001-0026158	A1	10-04-2001	Ohno, et al.	
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				

FOREIGN PATENT DOCUMENTS						
Examiner Initials'	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		DE 100 36 356 C2 (with English summary)	03-14-2002	Institut fur Physikalische Hochtechnologie e.V.		
		DE 100 53 206 C1 (with English abstract)	01-17-2002	Siemens AG		
		DE 101 44 395 C1 (with English summary)	10-10-2002	Siemens AG		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	10/536,699		
		Filing Date	May 27, 2005		
		First Named Inventor	Reinhold Koch		
		Art Unit	2819		
Sheet	2	of	2	Examiner Name	
				Attorney Docket Number	3007990-0001-PCT-US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"XMR-Technologien: Magnetoelctrik, Sensorik," "XMR Technologies" Technology Analysis: Magnetism, vol. 2, VDI Technology Center "Physical Technologies," Düsseldorf, Germany, 1997, pps. 11 - 46 (with English abstract)	
		W.C. BLACK, et al., "Programmable logic using giant-magnetoresistance and spin-dependent tunneling devices (invited)," <i>Journal of Applied Physics</i> , vol. 87, 2000, pps. 6674-6679	
		A. T. HANBICKI, et al., Nonvolatile reprogrammable logic elements using hybrid resonant tunneling diode-giant magnetoresistance circuits," <i>Applied Physics Letters</i> , 2001, vol. 79, no. 8, pps 1190 - 1192	
		T. GERRITS, et al., "Ultrafast precessional magnetization reversal by picosecond magnetic field pulse shaping," <i>Nature</i> , vol. 418, 2002, pps - 509 - 512	
		R. RICHTER, et al., "Field programmable spin-logic realized with tunneling-magnetoresistance devices," <i>Solid State Electronics</i> , Elsevier Science Publishers, Barking, GB, 2002, Vol. 46, No. 5, pps. 639 - 643	
		A. NEY, et al., "Programmable Computing with a single magnetoresistive element," <i>Nature</i> , No. 425, 2003, pps 485 - 487	
		R. RICHTER, et al., "Tunneling systems for field programmable spin-logic gates," <i>Journal of Applied Physics</i> , 2002, vol. 91, No. 10, pps 8402 - 8404	
		R. RICHTER, et al., "Nonvolatile field programmable spin-logic for reconfigurable computing," <i>Applied Physics Letters</i> , 2002, vol. 80, No. 7, pps 1291 - 1293	
		R. RICHTER, et al., "Field programmable spin-logic based on magnetic tunneling elements," <i>Journal of Magnetism and Magnetic Materials</i> , 2002, Elsevier, vol. 240, no. 1 - 3, pps. 127 - 129	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.